

Title (en)
EPICYCLIC GEAR SYSTEM

Title (de)
PLANETENGETRIEBE

Title (fr)
TRAIN PLANETAIRE

Publication
EP 1399682 B1 20050824 (EN)

Application
EP 02742292 A 20020624

Priority

- US 0220069 W 20020624
- US 89466501 A 20010628

Abstract (en)
[origin: WO03002891A1] An epicyclic gear system (A) has a sun gear (2), a ring gear (4) located around the sun gear, and planet gears (6) located between and engaged with sun and ring gears. In addition, it has a carrier (8) including a carrier flange (30) offset axially from the planet gears, carrier pins (34) projecting from the carrier flange into the planet gears, and bearings (72) between the planet gears and the carrier pins so that the planet gears rotate on the pins. Each bearing includes an inner race (46) having tapered raceways (56) presented away from the carrier pin, opposing tapered raceways (24) on the ring gear, and tapered rollers (70) organized in two rows between the raceways. Whereas the carrier pin is cantilevered from the carrier flange, the inner race is cantilevered from the carrier pin remote from the carrier flange, and this insures that the axes (Y) about which the planet gears rotate remain parallel to the central axis (X) of the system.

IPC 1-7
F16H 1/28

IPC 8 full level
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CPC (source: EP US)
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F16H 57/082 (2013.01 - EP US); **F16C 33/605** (2013.01 - EP US); **F16C 2240/84** (2013.01 - EP US); **F16C 2361/61** (2013.01 - EP US);
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